# MINI MIXER MANUAL EN

# INTRODUCE

## Mini Mixer

Vaemi's new product, the Mini Mixer, is a mono analog mixer with 4 channels and 3.5mm mini jack inputs and outputs, designed for use in stage performances or recordings with all your line and analog equipment. Each channel features a saturation function, and it has a specially designed jack input for the 4th channel.

When the 4th channel and jack input are empty, the mixer's master output is rerouted to the inputs, creating a "feedback" circuit. This feature allows the sound gain to increase by approximately 6 times, significantly raising the saturation level of the mixer. If an instrument is connected to the 4th channel, the feedback signal is disabled when the jack is plugged in, and the instrument's sound becomes part of the summing. When the channels are muted, the feedback enters self-oscillation.

Each channel includes potentiometers for adjusting the volume. Additionally, there are mute switches for each channel. When the channels are active, the "CH 1" label and the labels on other channels light up green to indicate that the channel is open. The "Output" label lights up in blue depending on the intensity of the audio signal.

The Vaemi Mini Mixer can operate with any DC adapter between 8V and 16V or a 9V battery, making it suitable for use in any environment.

## Mini Mixer Features

- 4-Channel Analog Mixer: Suitable for stage performances and recordings with all line and analog equipment.
- 3.5mm Mini Jack Inputs and Outputs: Compact design for portability and easy connection.
- Saturation Feature: Provides saturation control to increase the intensity of the sound on each channel.
- Special Feedback Circuit: When the 4th channel is empty, the mixer's master output is routed back to the 4th channel input, creating a feedback.
- Feedback can increase the gain by approximately 6 times and provides more saturation.
- Feedback enters self-oscillation
- Instrument Input: When an instrument is connected to the 4th channel, the feedback signal is disabled and the channel's audio signal is included in the summing.
- Volume Adjustments: Potentiometers available for adjusting the volume on each channel.
- Mute Switches: Mute (silence) functionality available for each channel.
- Channel Status Indicator: The "CH 1" label on active channels lights up green to show the channel is open.
- Signal Level Indicator: The "Output" label lights up in blue according to the intensity of the audio signal.
- Power Source: Can operate with DC adapters between 8V and 16V or a 9V battery.
- Portable Use: Compact design makes it suitable for use in any environment.

## Dimensions

130mm (length) x 70mm (width) x 60mm (height)

Power Consumption and Power Supply Information
It can operate with a 9V battery and can also be used with adapters providing DC voltage between 8V and 18V. The current supplied by the adapter must be at least 20mA for the device to operate. In this case, power consumption can vary between 0.05W and 0.18W depending on load requirements.

## Inputs

The inputs are AC Coupled and have a 10k impedance. All inputs are "Mono".

## Output

The output has a 1k impedance and a maximum of 4 Vpp. It is AC Coupled and "Mono".

(Inputs and outputs impedance values were tested at a frequency of 1 kHz and with a 1 Vpp sine wave.)

The channel potentiometers increase gain at a x1 level when turned clockwise to the 12 o'clock position. When the potentiometer is turned past 12 o'clock, the saturation level increases.

There are 2-pin jumper slots on the back of the circuit board. One adjusts the general gain level, and the other adjusts the feedback level.

The general gain level can be set to x2 or x1.5. The feedback level can be set to x2 or x6.5. Channel 4 can open more gain than the other channels. This allows you to increase the level of instruments with low volume on channel 4.

J8 - Feedback Level Adjustment:
This jumper is used to adjust the feedback level. The mixer comes with the 2-pin jumper installed by default.

With the 2-pin jumper installed: Gain increases by 6.5 times.
With the 2-pin jumper removed: Gain increases by 2 times.
J3 - Gain Level Adjustment:
This jumper is used to adjust the gain level. The mixer comes with the 2-pin jumper removed by default.

With the 2-pin jumper installed: Gain increases by 2 times.
With the 2-pin jumper removed: Gain increases by 1.5 times.

# FRONT PANEL

1. 2.1mm DC jack socket with the positive center for power input.
2. Channel 1 Input Jack
3. Channel 2 Input Jack
4. Channel 3 Input Jack
5. Channel 4 Input Jack
6. Output Jack
7. Output Level Adjustment
8. Channel 1 Level Adjustment
9. Channel 2 Level Adjustment
10. Channel 3 Level Adjustment
11. Channel 4 Level Adjustment
12. Channel 1 On/Off Switch
13. Channel 2 On/Off Switch
14. Channel 3 On/Off Switch
15. Channel 4 On/Off Switch
16. Power Light
17. Output Level LED Indicator
18. Channel 1 On/Off Indicator Light
19. Channel 2 On/Off Indicator Light
20. Channel 3 On/Off Indicator Light
21. Channel 4 On/Off Indicator Light

# WARRANTY CONDITIONS

Diy kits are not covered by Vaemi warranty. Vaemi is not responsible for and accepts no responsibility for assembly errors or other problems with DIY kits.
Vaemi gives a two-year warranty on this product when you get it assembled.

Vaemi gives a one-year warranty for this product. The warranty period starts after the day you buy the product. (A proof of purchasing / a bill is required). Mistakes such as using the wrong power supply, connecting the cable to the bus board or the module in the wrong way, using a faulty flat (ribbon) cable, taking off the components, changing the front board, forwarding an output to another one will take the product out of warranty. In such a case, you will need to pay the normal service fee. Vaemi is not responsible, and will not take responsibility, for the damage that the product or the user may face because of operating the product. During the warranty period, a faulty product will be repaired by Vaemi for free. Shipping fees for sending the product back to Vaemi will be paid by the buyer.
For your further questions, please contact us on vaemisynth@gmail.com.

CE/REACH Compliant/RoHS Compliant
All Vaemi product are assembled with parts and materials that are compliant with CE/REACH/RoHs standards.

made in Türkiye